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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/726,841	12/02/2003	John Hines	TUMB-112	5556

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PATENT DEPARTMENT  
SKADDEN, ARPS, SLATE, MEAGHER & FLOM LLP  
FOUR TIMES SQUARE  
NEW YORK, NY 10036

EXAMINER
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JOHNSON, CARLTON

ART UNIT	PAPER NUMBER
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2136

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/08/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	Application No. 10/726,841	Applicant(s) HINES ET AL.	
	Examiner Carlton Johnson	Art Unit 2136	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 02 December 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1 and 2 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>10-6-2004</u> .   | 6) <input type="checkbox"/> Other: _____                          |

### DETAILED ACTION

1. This action is responding to application papers filed **12-2-2003**.
2. Claims **1 - 2** are pending. Claims **1** are independent.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claim **1** is rejected under 35 U.S.C. 102(e) as being anticipated by **Zhao et al.** (US Patent No. **7,124,295**).

**Regarding Claim 1**, Zhao discloses a method for updating CRL information between distributed components in a PKI environment, comprising:

- a) sequentially receiving a plurality of periodically updated versions of a CRL associated with a certificate authority; (see Zhao Figure 4; col. 3, lines 5-10: an update information only CRL (i.e. DeltaCRL) received by requestor)
- b) generating a plurality of DeltaCRL data elements by reference to sequentially adjacent CRL versions from the received CRL versions; (see Zhao Figure 4; col.

- 5, lines 1-3; col. 5, lines 8-12: multiple update information only CRLs (i.e. DeltaCRLs), appended together, multiple updates in one transmission)
- c) providing the DeltaCRLs to a node in a distributed PKI environment; (see Zhao col. 1, lines 14-17: PKI environment; col. 5, lines 24-30: combined set of multiple update information only CRLs (i.e. DeltaCRLs) returned to requestor; col. 4, line 66 - col. 5, line 4: reduction in time to transmit (i.e. bandwidth reduction)) and
- d) the node sequentially applying the DeltaCRLs to a base CRL to provide increasingly updated versions of said CRL, the base CRL being a version of the CRL within the timeframe of said periodically updated sequence of CRLs. (see Zhao col. 5, lines 31-32: multiple update information only CRL lists processed, server certificate revocation information updated to latest state)

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zhao in view of **Toneguzzo** (US PG PUB No. **20030182573**).

**Regarding Claim 2**, Zhao discloses the method of claim 1 with an attached digital signature. (see Zhao col. 5, lines 39-40: digital signature attached to reply update information only CRL (i.e. DeltaCRL) transmission) Zhao does not specifically disclose generating a hash value corresponding to each DeltaCRL, the hash value generated by reference sequentially adjacent CRL versions from the received CRL versions. And, Toneguzzo disclose wherein generating a hash value corresponding to each DeltaCRL, the hash value generated by reference sequentially adjacent CRL versions from the received CRL versions. (see Toneguzzo paragraph [0021], lines 1-9: Certificate Authority (CA), CRL processing capability; paragraph [0027], lines 1-4; paragraph [0029], lines 1-3; paragraph [0030], lines 5-8: hash generation and verification procedures for transmitted message (i.e. each message, a DeltaCRL))


It would have been obvious to one of ordinary skill in the art to modify Zhao as taught by Toneguzzo to enable the capability for the utilization of hash values for secure digital data representations during network communications. One of ordinary skill in the art would have been motivated to employ the teachings of Toneguzzo in order to guarantee to recipient that signed file came from individual who sent it, and that signed file was not altered since signature attached. (see Toneguzzo paragraph [0026], lines 5-8: "*... An effective digital signature is more secure than a paper signature. A digital signature provides a guarantee to a recipient that the signed file came from the person who sent it, and that it was not altered since it was signed. ...*")

**Conclusion**


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carlton Johnson whose telephone number is 571-270-1032. The examiner can normally be reached Monday through Friday from 8:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nassar Moazzami, can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Carlton Johnson  
December 22, 2006

NASSER MOAZZAMI  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100

  
12/23/06